t No.: 066821-0267

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Reed, John C., et al. Customer No.: 41552

Appl. No. : 10/766,682 Confirmation No.: 2878

Filed

: January 27, 2004

Title

: CARD3X-2 POLYPEPTIDES,

ENCODING NUCLEIC ACIDS, AND

METHODS OF USE

Grp./A.U.:

1634

Examiner: :

TO BE ASSIGNED

CERTIFICATE OF MAILING (37 CFR. § 1.8(a))

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Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is an Information Disclosure Statement in the above-identified application.

Also attached: 1 Information Disclosure Listing of Reference

0 References

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 502624, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

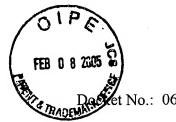
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Date: February 3, 2005



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Cate Lane

INFORMATION DISCLOSURE STATEMENT

Mail Stop Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached form PTO-1449. It is respectfully requested that the references be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.

Serial No.: 10/766,682

The references were cited by or submitted to the U.S. Patent and Trademark Office in parent application Serial No. 09/864,921, filed May 23, 2001, which is relied upon for an earlier filing date under 35 USC 120. Thus, copies of these references are not attached. 37 CFR 1.98(d).

Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 502624 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP

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as our correspondence address.

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ORMATION DISCLOSURE ATTY. DOCKET NO. SERIAL NO. 066821-0267 10/766,682 CITATION IN AN APPLICATION APPLICANT Reed, John C., et al. FILING DATE **GROUP** January 27, 2004 1634 **U.S. PATENT DOCUMENTS EXAMINER'S** Name of Patentee or Applicant of Cited Pages, Columns, Lines, Where CITE Document Number **Publication Date** INITIALS MM-DD-YYYY Document Relevant Passages or Relevant Number-Kind Code2 (# known) Figures Appear LADNER et al. 1 US | 5,223,409 06-29-1993 US US US US US US FOREIGN PATENT DOCUMENTS **EXAMINER'S** Name of Patentee or Pages, Columns, Lines Translation Foreign Patent Document Publication Date INITIALS Applicant of Cited Document Where Relevant CITE Country Code3 - Number 4 - Kind MM-DD-YYYY Yes No Figures Appear Codes (if known) NO. WO 96/12016 04-25-96 2 3 WO 99/40102 08-12-99 4 WO99/40102 08-12-99 (corrected) 5 WO 01/00826 01-04-01 6 WO 01/18042 03-15-01 WO 01/30971 05-03-01 WO 01/66690 8 09-13-01 WO 01/72822 9 10-04-01 OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, **EXAMINER'S** INITIALS journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where CITE AHMAD et al., "CRADD, a novel human apoptotic adaptor molecule for caspase-2, and 10 FasL/tumor necrosis factor receptor-interacting protein RIP," Cancer Res. 57:615-619 (1997)

EXAMINER	DATE CONSIDERED

ALTSCHUL et al., "Gapped Blast and PSI-Blast: a new generation of protein database

search programs," Nucleic Acids Res. 25:3389-3402 (1997)

11

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. References were cited in previous application no.: 09/864,921

INFORMATION DISCLOSURE CITATION IN AN APPLICATION		ATTY. DOCKET NO. 066821-0267	SERIAL NO. 10/766,682	
		APPLICANT Reed, John C., et al.		
			FILING DATE January 27, 2004	GROUP 1634
	12	BERTIN et al., "Human CARD4 Protein is a Novel CED-4/Apaf-1 Cell Death Family Member that Activates NF-kB," <u>J. Biol. Chem</u> . 274:12955-12958 (1999)		
	13	DAMIANO et al., "CLAN, a Novel Human CED-4-like Gene," Genomics 75:77-83(2001)		
	14	DIDONATO et al., "A cytokine-responsive IkB kinase that activates the transcription factor NF-kB," Nature 388:548-554 (1997)		
	15	DUJON et al., The yeast genome project: what did we learn? <u>Trends in Genetics</u> 12(7):263-270 (1996)		
	16	ELLERBY et al., "Anti-cancer activity of targeted pro-apoptotic peptides," Nature Med. 5:1032-1038 (1999)		
	17	FLETCHER et al., "A synthetic inhibitor of interleukin-1 beta converting enzyme prevents endotoxin-induced interleukin-1 beta production in vitro and in vivo," <u>J.</u> Interferon Cytokine Res. 15:243-248 (1995)		
	18	GEDDES et al., "Human CARD12 Is a Novel CED4/Apaf-1 Family Member That Induces Apoptosis," Biochemical and Biophysical Research Communications 284:77-82 (2001)		
	19	GREGORIADIS, <u>Liposome Technology</u> , Vols. I to III, 2nded., CRC Press, Boca Raton FL (1993). (Table of contents only)		
	20	HOFMANN et al., "The CARD domain: a new apoptotic signalling motif," <u>Trends</u> <u>Biochem. Sci.</u> 22:155-156 (1997)		
	21	HOLINGER et al., "Bak BH3 Peptides Antagonize Bcl-xL Function and Induce Apoptosis through Cytochrome c-independent Activation of Caspases," J. Biol. Chem. 274:13298-13304 (1999)		
	22	INOHARA et al., "Nod1, an Apaf-1-like Activator of Caspase-9 and Nuclear Factor-kB," J. Biol. Chem. 274:14560-14567 (1999)		
	23	KOBE et al., "Proteins with leucine-rich repeats," <u>Current Opinion in Structural Biology</u> 3(5):409-416 (1995)		
	24	KOONIN et al., "The NACHT family - a new group of predicted NTPases implicated in apoptosis and MHC transcription activation," TIBS 25(5):223-224 (2000)		
	25	LI et al., "Cytochrome c and dATP-Dependent Formation of Apaf-1/Caspase-9 Complex Initiates an Apoptotic Protease Cascase," Cell 91:479-489 (1997)		
	26	NEUFELD et al., "The Drosophila peanut Gene Is Required for Cytokinesis and Encodes a Protein Similar to Yeast Putative Bud Neck Filament Proteins," Cell 77:371-379 (1994)		
	27	OGURA et al., "Nod2, a Nod1/Apaf-1 family member that is restricted to monocytes and activates NF-kB," J. of Biol. Chem. 276 (7):4812-4818 (2001)		
	28	POYET et al., "Identification of Ipaf, a Human Caspase-1-activating Protein Related to Apaf-1," <u>Journal of Biological Chemistry</u> 276:28309-28313 (2001)		

EXAMINER	DATE CONSIDERED

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		APPLICANT Reed, John C., et al.		
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29	RANO et al., "A combinatorial approach for determining protease specificities: application to interleukin-1 beta converting enzyme (ICE)," Chem. Biol. 4:149-155 (1997)			
30	RODRIGUEZ et al., "Dark is a Drosophila homologue of Apaf-1/CED-4 and functions in an evolutionarily conserved death pathway," Nature Cell Biol. 1:272-279 (1999)			
31	ROST et al., "Enzyme function less conserved than anticipated," <u>Journal of Molecular Biology</u> 318:595-609 (2002)			
32	ROTHE et al., "The TNFR2-TRAF Signaling Complex Contains Two Novel Proteins Related to Baculoviral Inhibitor of Apoptosis Proteins," Cell 83:1243-1252 (1995)			
33	ROTONDA et al., "The three-dimensional structure of apopain/CPP32, a key mediator of apoptosis," Nature Struc. Biol. 3:619-625 (1996)			
34	RYCHLEWSKI et al., "Comparison of sequence profiles. Strategies for structural predictions using sequence information," Protein Science 9:232-241 (2000)			
35	SALEH et al., "Cytochrome c and dATP-mediated Oligomerization of Apaf-1 Is a Prerequisite for Procaspase-9 Activation," J. Biol. Chem. 274:17941-17945 (1999)			
36	SCHWARZE et al., "In Vivo Protein Transduction: Delivery of a Biologically Active Protein into the Mouse," Science 285:1569-1572 (1999)			
37	STAPLETON et al., "The crystal structure of an Eph receptor SAM domain reveals a mechanism for modular dimerization," Nature Structural Biology 6(1):44-49 (1999)			
38	TATUSOVA et al., "Blast 2 Sequences, a new tool for comparing protein and nucleotide sequences," FEMS Microbiol Lett. 174:247-250 (1999)			
33	THOME et al., "Identification of CARDIAK, a RIP-like kinase that associates with caspase-1," Curr. Biol. 8:885-888 (1998)			
40	THORNBERRY., "Caspases: key mediators of apoptosis," Chemistry and Biology 5:R97-R103 (1998)			
41	THORNBERRY et al., "A novel heterodimeric cysteine protease is required for interleukin-1 beta processing in monocytes," Nature 356:768-774 (1992)			
42	THORNBERRY et al., "Interleukin-1 beta converting enzyme: a novel cysteine protease required for IL-1 beta production and implicated in programmed cell death," <u>Protein Sci.</u> 4:3-12 (1995)			
43	TSCHOPP et al., "Inhibition of Fas death signals by FLIPs," <u>Curr. Op. Immunol</u> . 10:552-558 (1998)			
44	VAN DER BIEZEN et al., "The NB-ARC domain: a novel signalling [sic] motif shared by plant resistance gene products and regulators of cell death in animals," <u>Curr. Biol.</u> 8:R226-R227 (1998)			
45		VOCERO-AKBANI et al., "Killing HIV-infected cells by transduction with an HIV protease-activated caspase-3 protein," Nature Med. 5:29-33 (1999)		
46	WILLIS et al., "Bcl10 is Involved in the production of MALT B Cell Lymphoma and Mutated in Multiple Tumor Types," Cell 96:35-45 (1999)			
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